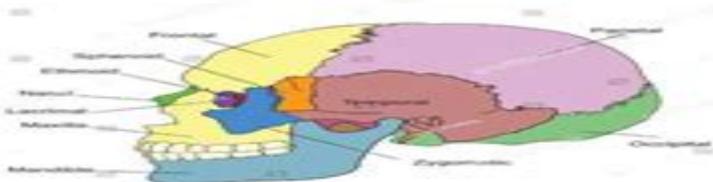


# MEDICAL-SURGICAL NURSING 2

Topic: HEAD INJURY  
Lecturer: PROF. JIM RASHID HAYUDINI, RN, MN

## ANATOMY AND PHYSIOLOGY OF THE SKULL

- **CRANIAL BONES**
  - Frontal
  - Temporal
  - Parietal
  - Occipital
  - Sphenoid
  - Ethmoid
- **LAYERS OF THE SKULL**
  - Dura mater - Outer layer lining skull
  - Arachnoid (mater) - Contain blood vessel
  - Subarachnoid space - Filled with CSF
  - Pia mater - Covers the brain



## HEAD INJURY

- Head injury is a broad classification that include injury to scalp, skull or brain. It is the most common cause of death from trauma. Trauma involving the central nervous system can be life threatening. Even if it is not life threatening, brain and spinal cord injury may result in major physical and psychological dysfunction, and can alter the life completely.
- A head injury is an any trauma to the scalp, skull or brain. The injury may be a minor bump on the skull or a serious brain injury.

### CAUSES

- Motor vehicle accidents
- Falls
- Assaults
- Sports related injuries
- Firearm related injuries
- Act of violence

### TYPES OF HEAD INJURY

#### SKULL INJURIES/ LACERATION

- Scalp laceration are associated with profuse bleeding. These are easily recognized because the scalp contains many blood vessels with poor constrictive abilities, even small wounds can bleed significantly.



#### SKULL FRACTURES

- It frequently occurs with head trauma. Fractures may be closed or open, depending on the presence of a scalp laceration or extension of fracture into air sinuses or dura.



#### TYPES OF SKULL FRACTURES

- **Linear** - Break in continuity of bone without alteration of relationship of parts.

- **Depressed** - Inward indentation of skull
- **Simple** - Linear or depressed skull fracture without fragmentation or communicating lacerations.
- **Comminuted** - Multiple linear fractures with fragmentation of bone into many pieces.
- **Compound** - Depressed skull fracture and scalp laceration with communicating pathway to intracranial cavity

#### MINOR HEAD TRAUMA

##### 1. CONCUSSION

- A sudden transient mechanical head injury with disruption of neuronal activity and a change in the LOC.
- It occurs when the brain suddenly shifts inside the skull and knocks against the skull bony surface.
- **Typical Signs:**
  - Brief disruption of LOC
  - Concussion can last from a few over 3 minutes or less than 5 minutes.
  - Retrograde amnesia
  - Headache

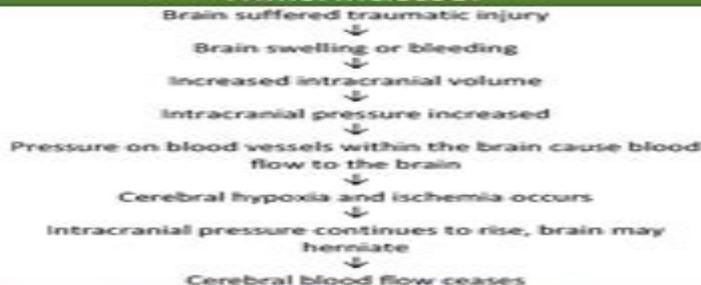
#### BRAIN INJURY

- A traumatic brain injury, closed (blunt) occurs when the head accelerates and then rapidly decelerates or collides with another object (e.g., a wall, the dashboard of a car) and brain tissue is damaged but there is no opening through the skull and dura. A traumatic brain injury, open (penetrating) occurs when an object penetrates the skull, enters the brain, and damages the soft brain tissue in its path or when blunt trauma to the head is so severe that it opens the scalp, skull, and dura to expose the brain.

##### 2. CONTUSION

- It is the bruising of the brain tissue within a focal area.
- It is usually associated with a closed head injury.
- In this type of injury contusion occur both at the site of the direct impact of the brain on the skull (coup) and at a secondary area of damage on the opposite side away from injury (countercoup) leading to multiple contusion areas.

#### PATHOPHYSIOLOGY



#### TEST TO DETERMINE CSF LEAKAGE

- **Method 1** - Use dextrostix or tes-tape strip to determine whether glucose is present. CSF give positive reading for glucose. If blood is present in the fluid, the test becomes unreliable because blood itself contains glucose. Then go for method 2.
- **Method 2** - (Hole or Ring sign)
  - Allow the leaking fluid drip onto a white pad or towel and observe the drainage.

# Head Injury 2nd Ed

**WJ Hussar**



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